

0988824-09201

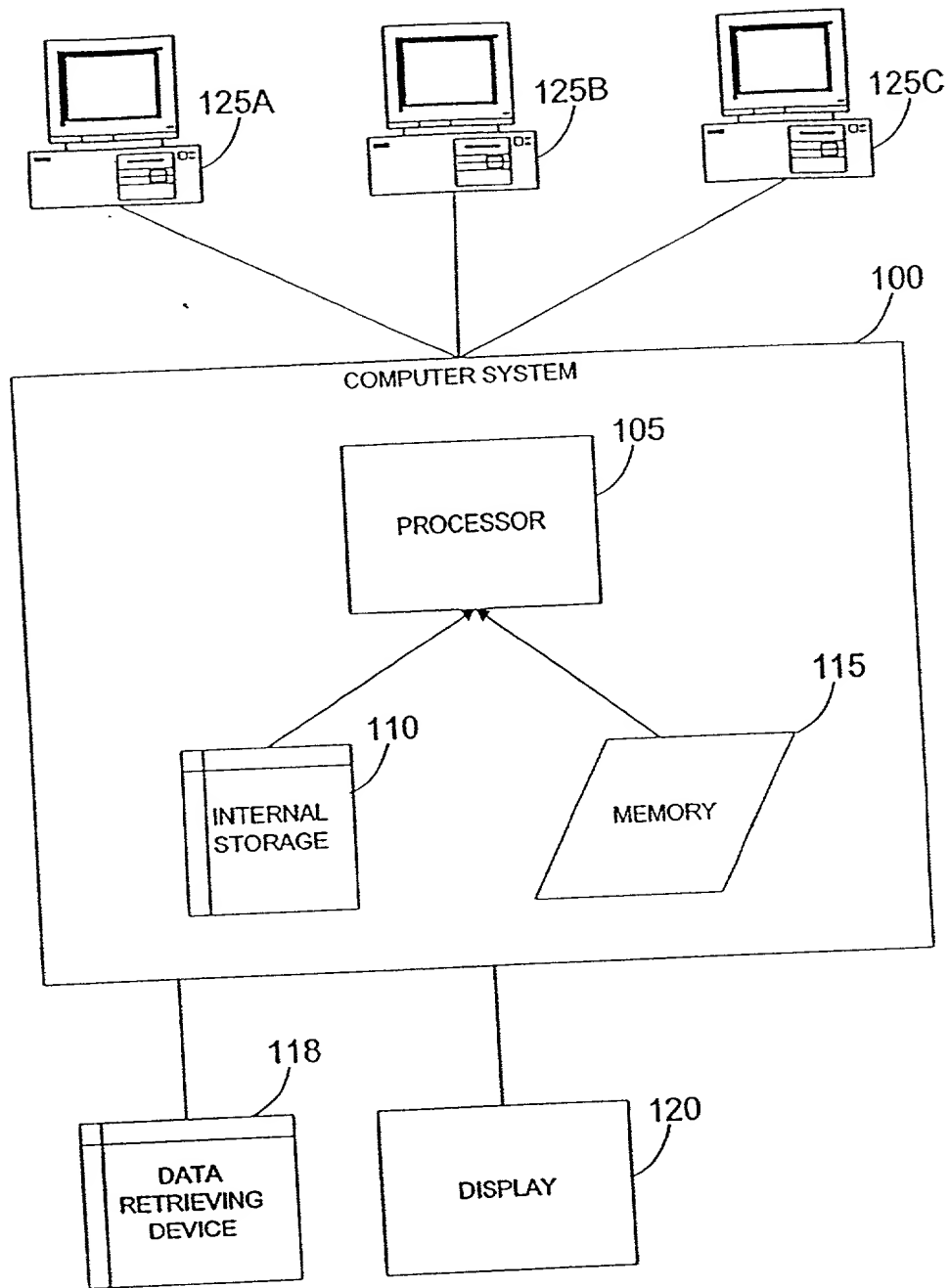


FIGURE 1

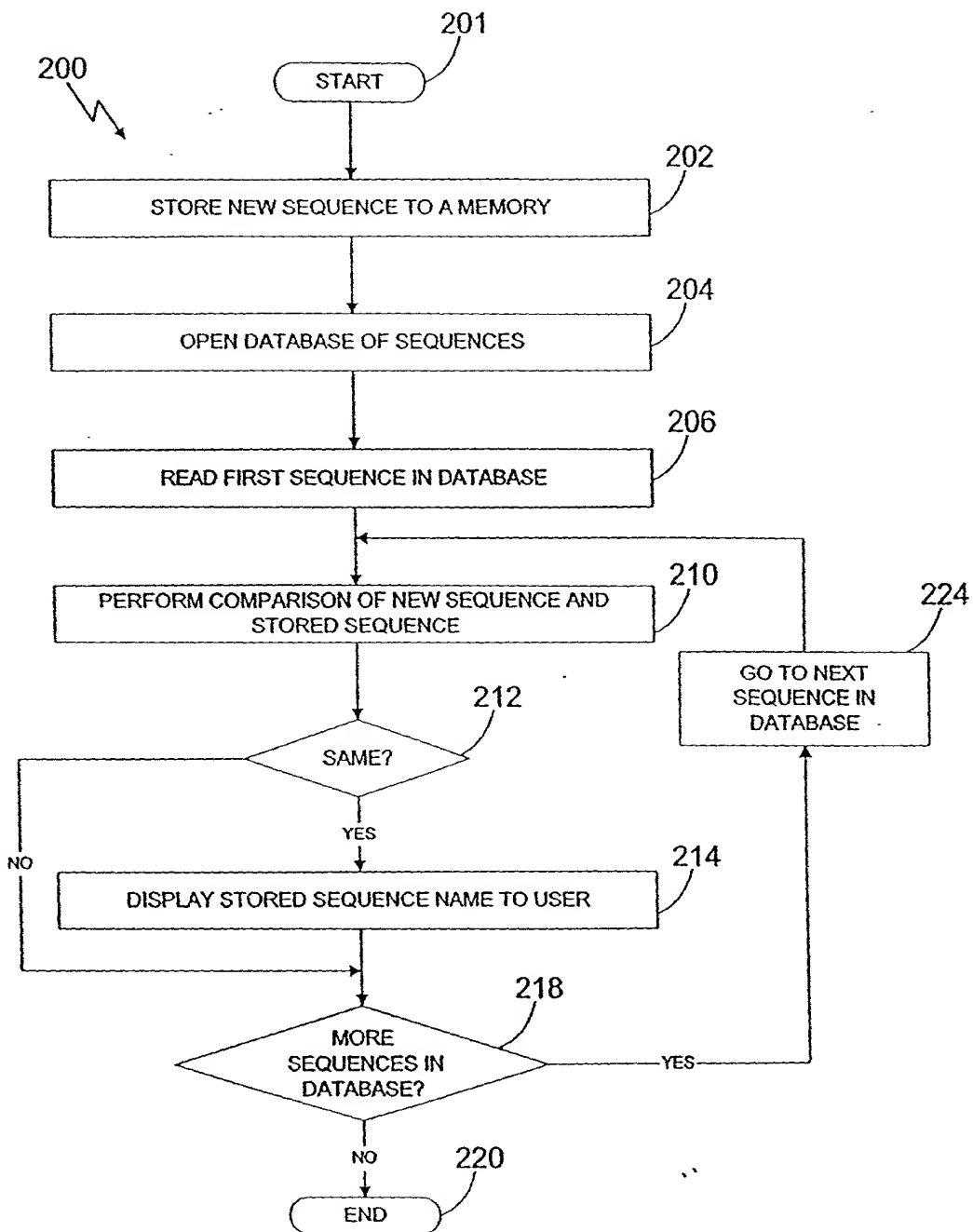


FIGURE 2

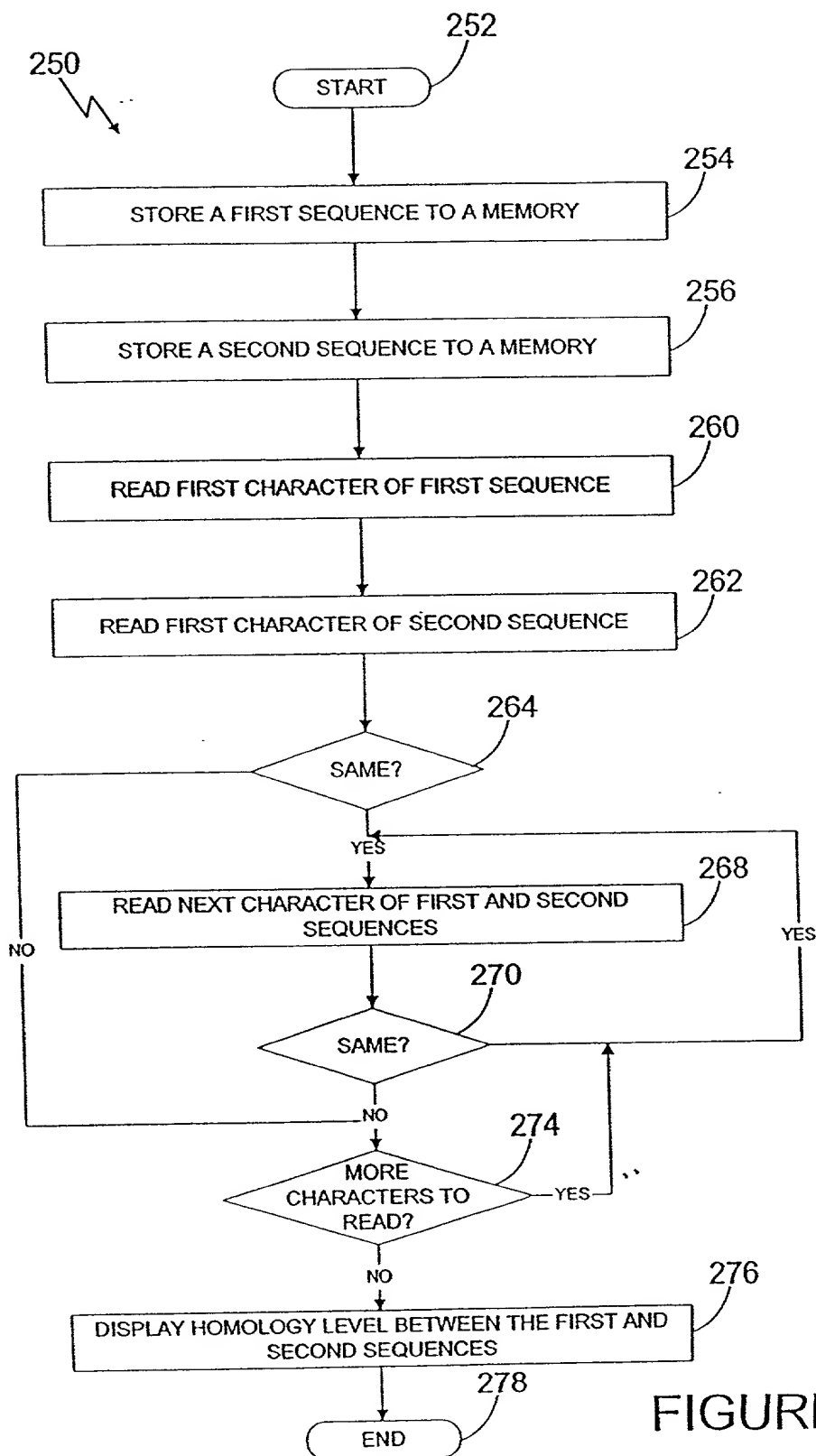


FIGURE 3

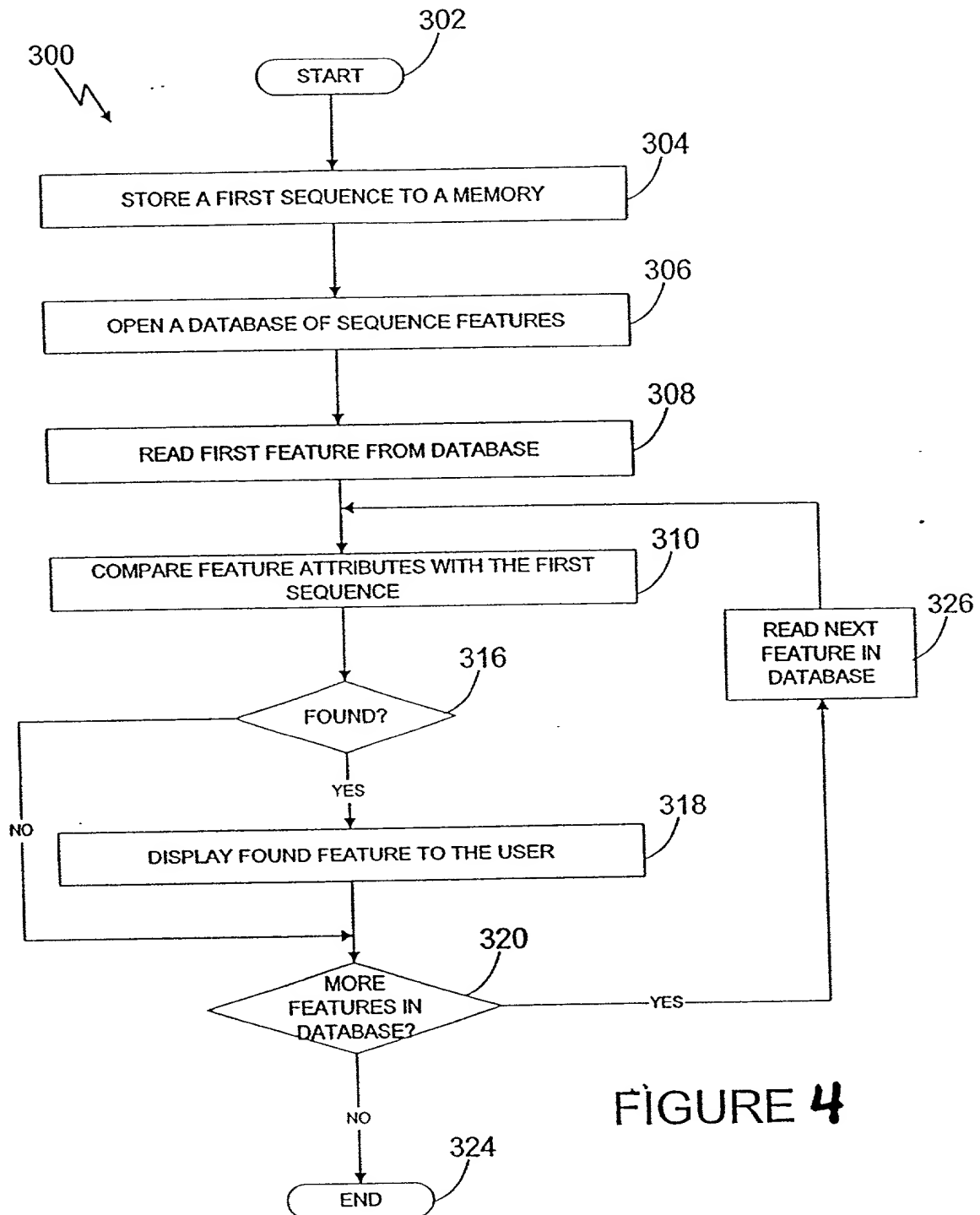


FIGURE 4

ATG	ATA	AAC	GTT	GCA	ACG	GGA	GAG	GAG	ACC	CCA	ATA	CAC	CTC	TTT	GGA	GTC	AAC
Met	Ile	Asn	Val	Ala	Thr	Gly	Glu	Glu	Thr	Pro	Ile	His	Leu	Phe	Gly	Val	Asn
TGG	TTC	GGC	TTT	GAG	ACA	CCG	AAC	TAC	GTT	GTT	CAC	GGC	CTA	TGG	AGT	AGG	AAC
Trp	Phe	Gly	Phe	Glu	Thr	Pro	Asn	Tyr	Val	Val	His	Gly	Leu	Trp	Ser	Arg	Asn
TGG	GAG	GAC	ATG	CTC	CTC	CAG	ATC	AAG	AGC	CTT	GGC	TTC	AAT	GCG	ATA	AGG	CTT
Trp	Glu	Asp	Met	Leu	Leu	Gln	Ile	Lys	Ser	Leu	Gly	Phe	Asn	Ala	Ile	Arg	Leu
CCC	TTC	TGT	ACC	CAG	TCA	GTA	AAA	CCG	GGG	ACG	ATG	CCA	ACG	GCG	ATT	GAC	TAC
Pro	Phe	Cys	Thr	Gln	Ser	Val	Lys	Pro	Gly	Thr	Met	Pro	Thr	Ala	Ile	Asp	Tyr
GCC	AAG	AAC	CCA	GAC	CTC	CAG	GGT	CTT	GAC	AGC	GTC	CAG	ATA	ATG	GAG	AAA	ATA
Ala	Lys	Asn	Pro	Asp	Leu	Gln	Gly	Leu	Asp	Ser	Val	Gln	Ile	Met	Glu	Lys	Ile
ATC	AAG	AAG	GCT	GGA	GAC	CTG	GGC	ATA	TTC	GTG	CTC	CTC	GAC	TAC	CAC	AGA	ATA
Ile	Lys	Lys	Ala	Gly	Asp	Leu	Gly	Ile	Phe	Val	Leu	Leu	Asp	Tyr	His	Arg	Ile
GGA	TGC	AAC	TTC	ATA	GAA	CCC	CTA	TGG	TAC	ACC	GAC	AGC	TTC	TCG	GAG	CAG	GAC
Gly	Cys	Asn	Phe	Ile	Glu	Pro	Leu	Trp	Tyr	Thr	Asp	Ser	Phe	Ser	Glu	Gln	Asp
TAC	ATA	AAC	ACC	TGG	GTT	GAA	GTC	GCC	CAG	AGG	TTC	GGC	AAG	TAC	TGG	AAC	GTT
Tyr	Ile	Asn	Thr	Trp	Val	Glu	Val	Ala	Gln	Arg	Phe	Gly	Lys	Tyr	Trp	Asn	Val
ATC	GGC	GCG	GAC	CTG	AAG	AAC	GAA	CCC	CAC	AGC	TCA	AGC	CCC	GCA	CCT	GCC	GCC
Ile	Gly	Ala	Asp	Leu	Lys	Asn	Glu	Pro	His	Ser	Ser	Ser	Pro	Ala	Pro	Ala	Ala
TAC	ACT	GAC	GGA	AGT	GGG	GCC	ACG	TGG	GGA	ATG	GGC	AAC	AAC	GCC	ACC	GAC	TGG
Tyr	Thr	Asp	Gly	Ser	Gly	Ala	Thr	Trp	Gly	Met	Gly	Asn	Asn	Ala	Thr	Asp	Trp
AAC	CTG	GCG	GCT	GAG	AGG	ATA	GGA	AGG	GCA	ATT	CTG	GAG	GTT	GCC	CCA	CAA	TGG
Asn	Leu	Ala	Ala	Glu	Arg	Ile	Gly	Arg	Ala	Ile	Leu	Glu	Val	Ala	Pro	Gln	Trp
GTT	ATA	TTT	GTT	GAG	GGA	ACC	CAG	TTC	ACC	ACC	CCC	GAG	ATA	GAC	GGT	AGG	TAC
Val	Ile	Phe	Val	Glu	Gly	Thr	Gln	Phe	Thr	Thr	Pro	Glu	Ile	Asp	Gly	Arg	Tyr
AAG	TGG	GGC	CAC	AAC	GCC	TGG	TGG	GGC	GGA	AAC	CTT	ATG	GGT	GTT	AGG	AAG	TAC
Lys	Trp	Gly	His	Asn	Ala	Trp	Trp	Gly	Gly	Asn	Leu	Met	Gly	Val	Arg	Lys	Tyr
CCA	GTT	AAC	CTG	CCC	AGG	GAC	AAG	GTT	GTT	TAC	AGC	CCC	CAA	GTT	TAC	GGT	TCA
Pro	Val	Asn	Leu	Pro	Arg	Asp	Lys	Val	Val	Tyr	Ser	Pro	Gln	Val	Tyr	Gly	Ser
GAA	GTT	TAC	GAC	CAG	CCC	TAC	TTT	GAC	CCC	GGT	GAG	GGG	TTC	CCC	GAC	AAC	CTC
Glu	Val	Tyr	Asp	Gln	Pro	Tyr	Phe	Asp	Pro	Gly	Glu	Gly	Phe	Pro	Asp	Asn	Leu
CCC	GAA	ATA	TGG	TAC	CAC	CAC	TTC	GGC	TAC	GTA	AAG	CTT	GAT	CTC	GGT	TAC	CCT
Pro	Glu	Ile	Trp	Tyr	His	His	Phe	Gly	Tyr	Val	Lys	Leu	Asp	Leu	Gly	Tyr	Pro

FIG. 5A

873 882 891 900 909 918  
GTT GTT ATA GGT GAG TTC GGA GGC AAG TAC GGC CAT GGG GGA GAC CCG AGG GAT  
Val Val Ile Gly Glu Phe Gly Gly Lys Tyr Gly His Gly Gly Asp Pro Arg Asp

927 936 945 954 963 972  
GTC ACT TGG CAG AAC AAG ATA ATA GAC TGG ATG ATC CAG AAC AAA TTC TGT GAC  
Val Thr Trp Gln Asn Lys Ile Ile Asp Trp Met Ile Gln Asn Lys Phe Cys Asp

981 990 999 1008 1017 1026  
TTC TTC TAC TGG AGC TGG AAC CCA AAC AGC GGT GAC ACC GGT GGA ATT CTG AAG  
Phe Phe Tyr Trp Ser Trp Asn Pro Asn Ser Gly Asp Thr Gly Gly Ile Leu Lys

1035 1044 1053 1062 1071 1080  
GAT GAC TGG ACG ACA ATA TGG GAG GAC AAG TAC AAC AAC CTG AAG AGG CTC ATG  
Asp Asp Trp Thr Thr Ile Trp Glu Asp Lys Tyr Asn Asn Leu Lys Arg Leu Met

1089 1098 1107 1116 1125 1134  
GAC AGC TGT TCT GGA AAC GCC ACT GCC CCG TCC GTC CCC ACG ACA ACT ACA ACA  
Asp Ser Cys Ser Gly Asn Ala Thr Ala Pro Ser Val Pro Thr Thr Thr Thr Thr

1143 1152 1161 1170 1179 1188  
ACA AGC ACA CCG CCA ACG ACC ACA ACG ACT ACA ACA TCC ACT CCA ACG ACC ACT  
Thr Ser Thr Pro Pro Thr Thr Thr Thr Thr Ser Thr Pro Thr Thr Thr

1197 1206 1215 1224 1233 1242  
ACC CAG ACC CCG ACC ACC ACT ACT CCA ACT ACG ACA ACC ACC ACG ACC ACA ACT  
Thr Gln Thr Pro Thr Thr Thr Thr Thr Pro Thr Thr Thr Thr Thr Thr Thr

1251 1260 1269 1278 1287 1296  
CCT TCA AAT AAC GTC CCA TTT GAA ATT GTG AAC GTT CTC CCG ACT AGC TCC CAG  
Pro Ser Asn Asn Val Pro Phe Glu Ile Val Asn Val Leu Pro Thr Ser Ser Gln

1305 1314 1323 1332 1341 1350  
TAC GAG GGA ACC AGC GTG GAG GTT GTA TGT GAT GGA ACC CAG TGT GCC TCC AGC  
Tyr Glu Gly Thr Ser Val Glu Val Val Cys Asp Gly Thr Gln Cys Ala Ser Ser

1359 1368 1377 1386 1395 1404  
GTT TGG GGA GCT CCG AAC CTC TGG GGA GTC GTT AAA ATC GGA AAC GCC ACC ATG  
Val Trp Gly Ala Pro Asn Leu Trp Gly Val Val Lys Ile Gly Asn Ala Thr Met

1413 1422 1431 1440 1449 1458  
GAC CCC AAC GTT TGG GGC TGG GAG GAC GTT TAC AAG ACT GCA CCC CAG GAC ATT  
Asp Pro Asn Val Trp Gly Trp Glu Asp Val Tyr Lys Thr Ala Pro Gln Asp Ile

1467 1476 1485 1494 1503 1512  
GGA ACC GGC AGC ACA AAG ATG GAG ATA AGG AAC GGG GTG CTC AAG GTT ACA AAC  
Gly Thr Gly Ser Thr Lys Met Glu Ile Arg Asn Gly Val Leu Lys Val Thr Asn

1521 1530 1539 1548 1557 1566  
CTC TGG AAC ATC AAC ATG CAT CCG AAG TAT AAC ACA ATG GCA TAC CCG GAG GTC  
Leu Trp Asn Ile Asn Met His Pro Lys Tyr Asn Thr Met Ala Tyr Pro Glu Val

1575 1584 1593 1602 1611 1620  
ATA TAC GGC GCC AAG CCT TGG GGC AAC CAG CCA ATA AAC GCT CCG AAC TTC GTG  
Ile Tyr Gly Ala Lys Pro Trp Gly Asn Gln Pro Ile Asn Ala Pro Asn Phe Val

1629 1638 1647 1656  
CTC CCG ATA AAG GTC TCC CAG CTT CCG AGG ATA CTT CGT TGA  
Leu Pro Ile Lys Val Ser Gln Leu Pro Arg Ile Leu Arg \*\*\*

FIG. 3B